

BAY AREA AIR QUALITY
MANAGEMENT DISTRICTPERMIT
TO OPERATE

This document does not permit the holder to violate any BAAQMD regulation or any other law.

PERMIT EXPIRATION DATE

APR 1, 2022

Plant# 1257

Genentech, Inc
1 DNA Way, MS 71
South San Francisco, CA 94080

Location: 460 Point San Bruno Boulevard
South San Francisco, CA 94080

S#	DESCRIPTION	[Schedule]	PAID
13	Boiler for Space Heat only, 21MM BTU/hr max, Natural gas Hot Water Boiler, H101 (Bldg 10) Emissions at: P10 Stack	[B]	707
14	Boiler for Space Heat only, 21MM BTU/hr max, Natural gas Hot Water Boiler, H102 (Bldg 10) Emissions at: P10 Stack	[B]	707
15	Fixed roof tank, 3200 gal, Aluminum, Multi-liquid Chemical Waste Storage Tank (Bldg 3)	[C]	162
16	MISC-HDLG> Storage, Water/organics mixture CHEMICAL WASTE STORAGE TANK (Bldg 10)	[F]	480
17	MISC-HDLG> Storage, Water/organics mixture CHEMICAL WASTE STORAGE TANK (Bldg 10)	[F]	480
23	Standby Diesel engine, 1480 hp, Caterpillar, 2105 cu in Emergency Diesel Generator (Outside Structure PS3) Emissions at: P23 Stack	[B]	371
24	Standby Diesel engine, 2153 hp, Caterpillar, 3158 cu in Emergency Diesel Generator (Outside Bldg 9) Emissions at: P24 Stack	[B]	557
25	Standby Diesel engine, 2168 hp, Caterpillar, 4214 cu in Emergency Diesel Generator (Outside Bldg 4) Emissions at: P25 Stack	[B]	746

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S#	DESCRIPTION	[Schedule]	PAID
30	Standby Diesel engine, 2168 hp, Caterpillar, 4214 cu in Emergency Diesel Generator (Outside Bldg 3) Emissions at: P30 Stack	[B]	820
32	Standby Diesel engine, 1135 hp, Cummins, 1300 cu in Emergency Diesel Generator (Outside Bldg 4) Emissions at: P32 Stack	[B]	390
33	Standby Diesel engine, 1661 hp, Caterpillar, 3161 cu in Emergency Diesel Generator (Outside Bldg 5) Emissions at: P33 Stack	[B]	571
34	Standby Diesel engine, 2168 hp, Caterpillar, 4214 cu in Emergency Diesel Generator (Outside Bldg 3) Emissions at: P34 Stack	[B]	820
35	Standby Diesel engine, 2153 hp, Caterpillar, 3161 cu in Emergency Diesel Generator (Outside Bldg 3) Emissions at: P35 Stack	[B]	815
38	Standby Diesel engine, 2168 hp, Caterpillar, 4214 cu in Emergency Diesel Generator (Outside Bldg 9) Emissions at: P38 Stack	[B]	820
39	Standby Diesel engine, 2168 hp, Caterpillar, 4214 cu in Emergency Diesel Generator (Outside Bldg 9) Emissions at: P39 Stack	[B]	820
40	Standby Diesel engine, 2168 hp, Caterpillar, 4214 cu in Emergency Diesel Generator (Outside Bldg 9) Emissions at: P40 Stack	[B]	820
41	Standby Diesel engine, 2153 hp, Caterpillar, 3161 cu in Emergency Diesel Generator (Outside Bldg 9) Emissions at: P41 Stack	[B]	815
42	Standby Diesel engine, 2168 hp, Caterpillar, 4214 cu in Emergency Diesel Generator (Outside Bldg 10) Emissions at: P42 Stack	[B]	820



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S#	DESCRIPTION	[Schedule]	PAID
43	Portable Standby Diesel engine, 2168 hp, Caterpillar Emergency Diesel Generator (Outside Bldg 10) Emissions at: P43 Stack	[B]	820
46	Standby Diesel engine, 896 hp, Caterpillar, 296 cu in Emergency Diesel Generator (Outside Bldg 24) Abated by: A1046 Catalyzed Diesel Particulate Filter Emissions at: P1046 Stack	[B]	282
47	Standby Diesel engine, 521 hp, Onan, 840 cu in Emergency Diesel Generator (Outside Bldg 26) Emissions at: P47 Stack	[B]	282
48	Standby Diesel engine, 535 hp, Cummins, 855 cu in Emergency Diesel Generator (Outside Bldg 26) Emissions at: P48 Stack	[B]	282
49	Standby Diesel engine, 535 hp, Cummins, 855 cu in Emergency Diesel Generator (Outside Bldg 26) Emissions at: P49 Stack	[B]	282
50	Standby Diesel engine, 75 hp, Olympic, 240 cu in Emergency Diesel Generator (Outside Bldg 27) Emissions at: P50 Stack	[B]	282
56	Standby Diesel engine, 91 hp, Detroit Diesel, 243 cu in Emergency Diesel Fire Pump (Outside Bldg 6) Emissions at: P56 Stack	[B]	282
58	Standby Diesel engine, 2847.5 hp, Caterpillar, 4210 cu in Emergency Diesel Generator (Outside Bldg 15) Emissions at: P58 Stack	[B]	707
59	Standby Diesel engine, 2847.5 hp, Caterpillar, 4210 cu in Emergency Diesel Generator (Outside Bldg 15) Emissions at: P59 Stack	[B]	707

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S#	DESCRIPTION	[Schedule]	PAID
60	Standby Diesel engine, 2670 hp, Detroit Diesel, 3967 cu in Emergency Diesel Generator (Outside Bldg 8) Emissions at: P60 Stack	[B]	572
61	Standby Diesel engine, 2670 hp, Detroit Diesel, 3967 cu in Emergency Diesel Generator (Outside Bldg 8) Emissions at: P61 Stack	[B]	629
62	Standby Diesel engine, 60 hp, Detroit Diesel, 275 cu in Emergency Diesel Firepump (Outside Bldg 32) Emissions at: P62 Stack	[B]	282
63	Standby Diesel engine, 1408 hp, Caterpillar, 2107 cu in Emergency Diesel Generator Engine (Outside Bldg 32) Emissions at: P63 Stack	[B]	371
70	Standby Diesel engine, 94 hp, Detroit Diesel, 275 cu in Emergency Diesel Firepump (Outside Bldg 15) Emissions at: P70 Stack	[B]	256
71	Standby Diesel engine, 685 hp, Caterpillar, 966 cu in Emergency Diesel Generator (Outside Bldg 36) Emissions at: P71 Stack	[B]	282
72	CHEM> Sterilization, medical equipment, Ethylene oxide Ethylene Oxide Sterilizer (1st Floor Bldg 14) Abated by: A3 Catalytic Afterburner Emissions at: P72 Stack	[G1]	2492
73	Fixed roof tank, 3K gal, White, Multi-liquid, 6.35 ft diam Waste Solvent Storage Tank (SouthEast Corner Bldg 15)	[C]	162
74	CHEM> Laboratory, Hydrocarbon, 3.2 tons/hr max FRC II Laboratory Operations (Bldg 13&14 & 15)	[exempt]	0
75	Standby Diesel engine, 382 hp, Caterpillar, 638 cu in Emergency Diesel Generator (Outside Bldg 28) Emissions at: P75 Stack	[B]	282



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S#	DESCRIPTION	[Schedule]	PAID
76	Standby Diesel engine, 1114 hp, Caterpillar, 1649 cu in Emergency Diesel Generator (Outside Bldg 29) Emissions at: P76 Stack	[B]	285
77	Standby Diesel engine, 160 hp, John Deere, 415 cu in Emergency Diesel Firepump (Outside Bldg 29) Emissions at: P86 Stack	[B]	282
78	Standby Diesel engine, 1480 hp, EPA# 3CPXL34.5ERK Emergency Diesel Generator (Inside Bldg 33) Abated by: A1078 Catalyzed Diesel Particulate Filter Emissions at: P1078 Stack	[B]	390
79	Standby Diesel engine, 85 hp, John Deere, 275 cu in Emergency Diesel Firepump (Inside Structure PS2) Emissions at: P79 Stack	[B]	282
80	Standby Reciprocating engine, 2155 hp, EPA# 2CPXL58.6ERK Emergency Diesel Generator (Outside Bldg 20) Abated by: A1080 Catalyzed Diesel Particulate Filter Emissions at: P1080 Stack	[B]	540
81	Standby Diesel engine, 59 hp, John Deere, 275 cu in Emergency Diesel Firepump (Inside Bldg 33) Emissions at: P4 Stack	[B]	282
82	Standby Diesel engine, 2848 hp, EPA# 5CPXL78.1ERK Emergency Diesel Generator Set (Outside Bldg 9) Abated by: A1082 Catalyzed Diesel Particulate Filter Emissions at: P1082 Stack	[B]	655
83	Commercial/Institutional Boiler, 97MM BTU/hr max Boiler (Outside Northwest Side of Bldg 9A) Emissions at: P83 Stack	[B]	3278
84	Commercial/Institutional Boiler, 97MM BTU/hr max Boiler (Northwest Side of Bldg 9A) Emissions at: P84 Stack	[B]	3278



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S#	DESCRIPTION	[Schedule]	PAID
85	Commercial/Institutional Boiler, 97MM BTU/hr max Boiler (Bldg 9A) Emissions at: P85 Stack	[B]	3278
87	Standby Diesel engine, 1807 hp, EPA# 5CPXL58.6ERK Emergency Diesel Generator Set (Outside Bldg 9) Abated by: A1087 Catalyzed Diesel Particulate Filter Emissions at: P1087 Stack	[B]	459
88	Standby Diesel engine, 2848 hp, EPA# 5CPXL78.1ERK Emergency Diesel Generator Set (Outside Bldg 41) Abated by: A1088 Catalyzed Diesel Particulate Filter Emissions at: P1088 Stack	[B]	657
89	Standby Diesel engine, 2848 hp, EPA# 5CPXL78.1ERK Emergency Diesel Generator Set (Outside Bldg 42) Abated by: A1089 Catalyzed Diesel Particulate Filter Emissions at: P1089 Stack	[B]	657
90	Standby Diesel engine, 2848 hp, EPA# 5CPXL78.1ERK Emergency Diesel Generator Set (Outside Bldg 43) Abated by: A1090 Catalyzed Diesel Particulate Filter Emissions at: P1090 Stack	[B]	657
91	Standby Diesel engine, 2848 hp, EPA# 5CPXL78.1ERK Emergency Diesel Generator Set (Outside Bldg 44) Abated by: A1091 Catalyzed Diesel Particulate Filter Emissions at: P1091 Stack	[B]	657
92	Standby Diesel engine, 2847.5 hp, EPA# 5CPXL78.1ERK Emergency Diesel Generator Set (Outside Bldg 51) Abated by: A1092 Catalyzed Diesel Particulate Filter Emissions at: P1092 Stack	[B]	702
93	Standby Diesel engine, 325 hp, Olympian, 531 cu in Emergency Diesel Generator Set (Outside Bldg 39) Emissions at: P13 Stack	[B]	256

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S#	DESCRIPTION	[Schedule]	PAID
94	Standby Diesel engine, 2937 hp, EPA# 6CPXL78.1T2E Emergency Diesel Generator Set (Outside Bldg 45) Abated by: A1094 Catalyzed Diesel Particulate Filter Emissions at: P14 Stack	[B]	718
95	Standby Diesel engine, 2937 hp, EPA# 6CPXL78.1T2E Emergency Diesel Generator Set (Outside Bldg 46) Abated by: A1095 Catalyzed Diesel Particulate Filter Emissions at: P1095 Stack	[B]	658
96	Standby Diesel engine, 2937 hp, EPA# 6CPXL78.1T2E Emergency Diesel Generator Set (Outside Bldg 47) Abated by: A1096 Catalyzed Diesel Particulate Filter Emissions at: P1096 Stack	[B]	723
98	Standby Diesel engine, 126 hp, EPA# 6PKXL04.4RJ1 Emergency Diesel Generator Set (Outside Bldg 71) Emissions at: P98 Stack	[B]	282
99	Standby Diesel engine, 2937 hp, EPA# 6CPXL78.1T2E Emergency Diesel Generator Set (Outside Bldg 48) Abated by: A1099 Catalyzed Diesel Particulate Filter Emissions at: P1099 Stack	[B]	658
100	Fixed roof tank, 2K gal, White, Multi-liquid, 5.46 ft diam Solvent Waste Tank (Outside Bldg 3)	[C]	147
102	Standby Diesel engine, 2937 hp, EPA# 9CPXL78.1T2E Emergency Diesel Generator (Outside Bldg 27) Abated by: A1102 Catalyzed Diesel Particulate Filter Emissions at: P1102 Stack	[B]	723
103	Standby Diesel engine, 2937 hp, EPA# 9CPXL78.1T2E Emergency diesel Generator (Outside Bldg 56) Abated by: A1103 Catalyzed Diesel Particulate Filter Emissions at: P1103 Stack	[B]	723
104	CHEM> Laboratory, Hydrocarbon, 1.6 tons/hr max Laboratory Operations (South Campus)	[exempt]	0



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S#	DESCRIPTION	[Schedule]	PAID
105	Standby Diesel engine, 364 hp, EPA# 6CEXL0540AAB, Cummins Emergency Diesel Generator Set (Inside Structure PSB) Emissions at: P105 Stack	[B]	282
106	Standby Diesel engine, 470 hp, EPA# 4CEXL0661AAD, Cummins Emergency Diesel Generator (Inside Structure PSA) Emissions at: P106 Stack	[B]	282
107	Standby Diesel engine, 2937 hp, EPA# ACPXL78.1T2E Emergency Diesel Generator Set (Outside Bldg 9) Abated by: A107 Catalyzed Diesel Particulate Filter Emissions at: P107 Stack	[B]	723
108	Standby Diesel engine, 1474 hp, EPA# DCPXL32.0NZS Emergency Diesel Generator (Outside Bldg 35) Emissions at: P108 Stack	[B]	374
109	Fixed roof tank, 6K gal, White, Multi-liquid, 8 ft diam Building 47 Solvent Waste Tank	[C]	162
110	Commercial/Institutional Boiler, 2500K BTU/hr max Boiler (Bldg 47)	[R]	115
111	Solvent cleaning, 1373 gal/yr net solvent, 68 deg F GMP Wipe Cleaning in Production - Mammalian Cell (Bldg 3)	[E]	1197
112	Solvent cleaning, 186 gal/yr net solvent, 68 deg F GMP Wipe Cleaning in Production - Bacterial Cell (Bldg 3)	[E]	629
113	Solvent cleaning, 463 gal/yr net solvent, 68 deg F GMP Solvent Wipe Cleaning in Production - Formulation (Bldg 8)	[E]	629
114	Solvent cleaning, 771 gal/yr net solvent, 68 deg F GMP Solvent Wipe Cleaning in Production - Filling (Bldg 51)	[E]	672
115	Solvent cleaning, 547 gal/yr net solvent, 68 deg F GMP Solvent Wipe Cleaning in Production - Clinical	[E]	629

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S#	DESCRIPTION	[Schedule]	PAID
116	Solvent cleaning, 1419 gal/yr net solvent, 68 deg F Solvent Wipe Cleaning in Research and Development (Lower Campus)	[E]	1237
117	Solvent cleaning, 288.71 gal/yr net solvent Solvent Wipe Cleaning in Research and Development (Mid and South Campus)	[E]	629
118	Commercial/Institutional Boiler, 5MM BTU/hr max, Natural gas Boiler HWB-12, EIN 64448 (Bldg 1)	[R]	115
119	Commercial/Institutional Boiler, 3300K BTU/hr max Boiler, EIN 10053109 (Bldg 5)	[R]	115
120	Commercial/Institutional Boiler, 3300K BTU/hr max Boiler, EIN 10053110 (Bldg 5)	[R]	115
121	Commercial/Institutional Boiler, 3300K BTU/hr max Boiler, EIN 10053111 (Bldg 5)	[R]	115
122	Commercial/Institutional Boiler, 3300K BTU/hr max Boiler, EIN 10053112 (Bldg 5)	[R]	115
123	Commercial/Institutional Boiler, 2500K BTU/hr max Boiler, EIN 10053119 (Bldg 56)	[R]	115
124	Commercial/Institutional Boiler, 2500K BTU/hr max Boiler, EIN 10053120 (Bldg 56)	[R]	115
125	Commercial/Institutional Boiler, 2500K BTU/hr max Boiler, EIN 10053121 (Bldg 56)	[R]	115
126	Commercial/Institutional Boiler, 2500K BTU/hr max Boiler, EIN 10053122 (Bldg 56)	[R]	115
127	Boiler for Space Heat only, 8MM BTU/hr max, Natural gas Boiler SB1, EIN 71589 (Bldg 15)	[R]	115
128	Boiler for Space Heat only, 8MM BTU/hr max, Natural gas Boiler SB2, EIN 71590 (Bldg 8)	[R]	115



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S#	DESCRIPTION	[Schedule]	PAID
129	Commercial/Institutional Boiler, 2250K BTU/hr max Boiler B20-A, EIN 10026022 (Bldg 20)	[R]	115
130	Commercial/Institutional Boiler, 2250K BTU/hr max Boiler B20-B, EIN 10026023 (Bldg 20)	[R]	115
131	Commercial/Institutional Boiler, 2250K BTU/hr max Boiler B20-C, EIN 10026024 (Bldg 20)	[R]	115
132	Commercial/Institutional Boiler, 5MM BTU/hr max, Natural gas Boiler B42A, EIN 71529 (Bldg 42)	[R]	115
133	Commercial/Institutional Boiler, 5MM BTU/hr max, Natural gas Boiler B42B, EIN 71530 (Bldg 42)	[R]	115
134	Commercial/Institutional Boiler, 2400K BTU/hr max Boiler B46A, EIN 10003268 (Bldg 46)	[R]	115
135	Commercial/Institutional Boiler, 2400K BTU/hr max Boiler B46B, EIN 10003269 (Bldg 46)	[R]	115
136	Commercial/Institutional Boiler, 2400K BTU/hr max Boiler B47A, EIN 10003406 (Bldg 47)	[R]	115
137	Commercial/Institutional Boiler, 2400K BTU/hr max Boiler B47B, EIN 10003407 (Bldg 47)	[R]	115
138	Industrial Boiler - Other, 9997K BTU/hr max, Natural gas Boiler B48A, EIN 10003662 (Bldg 48)	[R]	115
139	Industrial Boiler - Other, 9997K BTU/hr max, Natural gas Boiler B48B, EIN 10003663 (Bldg 48)	[R]	115
140	Commercial/Institutional Boiler, 6MM BTU/hr max, Natural gas Boiler B48D, EIN 10003622 (Bldg 48)	[R]	115
141	Commercial/Institutional Boiler, 2500K BTU/hr max Boiler 148-BR-2203, EIN 10028465 (Bldg 48)	[R]	115



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142	Commercial/Institutional Boiler, 2500K BTU/hr max Boiler 148-BR-2204, EIN 10028466 (Bldg 48)	[R]	115
143	Commercial/Institutional Boiler, 2400K BTU/hr max Boiler B-3301, EIN 66306 (Bldg 33)	[R]	115
144	Commercial/Institutional Boiler, 3MM BTU/hr max, Natural gas Boiler (Bldg 35)	[R]	115
145	Commercial/Institutional Boiler, 3MM BTU/hr max, Natural gas Boiler (Bldg 35)	[R]	115

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73 Permitted Sources, 29 Registered Sources, 2 Exempt Source

\*\*\* See attached Permit Conditions \*\*\*

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\*\*\* PERMIT CONDITIONS \*\*\*

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ALL SOURCES are subject to Condition ID# 25404

| Source# | Subject to Condition Numbers |
|---------|------------------------------|
| -----   | -----                        |

|    |              |
|----|--------------|
| 13 | 6044         |
| 14 | 6044         |
| 15 | 8029         |
| 16 | 8153         |
| 17 | 8262         |
| 23 | 22820        |
| 24 | 22820        |
| 25 | 22820        |
| 30 | 22820        |
| 32 | 22820        |
| 33 | 22820        |
| 34 | 22820        |
| 35 | 22820        |
| 38 | 22820        |
| 39 | 22820        |
| 40 | 22820        |
| 41 | 22820        |
| 42 | 22820        |
| 43 | 22820        |
| 46 | 22820, 24405 |
| 47 | 22820        |
| 48 | 22820        |
| 49 | 22820        |
| 50 | 22820        |
| 56 | 22850        |
| 58 | 22820        |
| 59 | 22820        |
| 60 | 22820        |
| 61 | 22820        |
| 62 | 22851        |
| 63 | 22820        |
| 70 | 22851        |
| 71 | 22820        |
| 72 | 24428        |
| 73 | 21007        |
| 75 | 22820        |
| 76 | 22820        |
| 77 | 22830        |

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## \*\*\* PERMIT CONDITIONS \*\*\*

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## Source#      Subject to Condition Numbers

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|     |                     |
|-----|---------------------|
| 78  | 22820, 24405        |
| 79  | 22850               |
| 80  | 22820, 24405, 26640 |
| 81  | 22850               |
| 82  | 22820, 24405        |
| 83  | 23678               |
| 84  | 23678               |
| 85  | 23678               |
| 87  | 22820, 24405        |
| 88  | 22820, 24405        |
| 89  | 22820, 24405        |
| 90  | 22820, 24405        |
| 91  | 22820, 24405        |
| 92  | 22820, 24405        |
| 93  | 22850               |
| 94  | 22830, 24405        |
| 95  | 22850, 24405        |
| 96  | 22850, 24405        |
| 98  | 22850               |
| 99  | 22850, 24405        |
| 100 | 23347               |
| 102 | 22830, 24405        |
| 103 | 22830, 24405        |
| 105 | 22830               |
| 106 | 22850               |
| 107 | 22830, 24405        |
| 108 | 22850               |
| 109 | 26430               |
| 111 | 26252               |
| 112 | 26252               |
| 113 | 26252               |
| 114 | 26252               |
| 115 | 26252               |
| 116 | 26252               |
| 117 | 26252               |

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## \*\*\* PERMIT CONDITIONS \*\*\*

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COND# 6044 applies to S#'s 13, 14

[Modified during permit renewal 5/2020]

S-13, S-14: Hot Water Boilers

1. The owner/operator of sources S-13 and S-14, Hot Water Boilers, shall fire the boilers on natural gas exclusively. The boilers shall not be modified to burn fuel oil without first obtaining an Authority to Construct from the District.  
[Basis: Cumulative Increase]
2. Deleted.
3. The owner/operator shall ensure that S-13 and S-14 do not emit more than 9 ppmv NOx at 3% oxygen, dry, at any firing rate.  
[Basis: Cumulative Increase, Regulation 9-7-307.5]
4. The owner/operator shall ensure that S-13 and S-14 do not emit more than 50 ppmv CO at 3% oxygen, dry, at any firing rate.  
[Basis: Cumulative Increase, BACT]
5. (A/C startup source test condition deleted.)
6. The owner/operator shall ensure that the total usage of natural gas at S-13 and S-14 does not exceed 1.32 million therms in any consecutive twelve-month period.  
[Basis: Cumulative Increase]
7. The owner/operator shall record the usage of natural gas monthly in a District-approved data log and retain the data for at least five years from the date of entry. The owner/operator shall keep the log on site and make the log available to the District staff upon request.  
[Basis: Cumulative Increase, Regulation 1-441]

End of Conditions

COND# 8029 applies to S# 15

[Modified during permit renewal 5/2020]

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## \*\*\* PERMIT CONDITIONS \*\*\*

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## S-15 Chemical Waste Storage Tank

1. The owner/operator shall ensure that the total liquid throughput for storage tank S-15 does not exceed 20,000 gallons in any consecutive 12-month period.  
(Basis: Cumulative Increase)
2. In order to demonstrate compliance with Condition #1, the owner/operator of tank S-15 shall maintain monthly and annual waste solvent throughput records in a District-approved log. These records shall be kept on site and made available for District inspection for a period of at least 5 years from the date on which a record was made.  
(Basis: Cumulative Increase)

COND# 8153 applies to S# 16

[Modified during permit renewal 5/2020]

## S-16 Chemical Waste Storage Tank

1. The total liquid throughput for storage tank S-16 shall not exceed 6,000 gallons in any consecutive 12-month period. (Basis: Cumulative Increase)
2. Storage tank S-16 shall be equipped with a submerged fill pipe or bottom filled in order to comply with the requirements of Regulation 8-5-301.  
(Basis: Regulation 8-5)
3. In order to demonstrate compliance with Condition #1, the owner/operator of tank S-16 shall maintain monthly and annual waste solvent throughput records in a District-approved log. These records shall be kept on site and made available for District inspection for a period of at least five years from the date on which a record was made. (Basis: Cumulative Increase)

COND# 8262 applies to S# 17

[Modified during permit renewal 5/2020]

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**S-17 Chemical Waste Storage Tank**

1. The total liquid throughput for storage tank S-17 shall not exceed 6,000 gallons in any consecutive 12 month period. (Basis: Cumulative Increase)
2. Storage tank S-17 shall be equipped with a submerged fill pipe or bottom filled in order to comply with the requirements of Regulation 8-5-301. (Basis: Regulation 8-5)
3. In order to demonstrate compliance with Condition #1, the owner/operator of tank S-17 shall maintain monthly and annual waste solvent throughput records in a District-approved log. These records shall be kept on site and made available for District inspection for a period of at least five years from the date on which a record was made. (Basis: Cumulative Increase)

**COND# 21007 applies to S# 73**

[Modified during permit renewal 5/2020]

1. The total liquid throughput for Waste Solvent Storage Tank S-73 shall not exceed 19,200 gallons in any consecutive 12 month period. (Basis: Cumulative Increase)
2. Waste Solvent Storage Tank S-73 shall be equipped with a submerged fill pipe or bottom filled in order to comply with the requirements of Regulation 8-5-301. (Basis: Regulation 8-5)
3. In order to demonstrate compliance with Condition #1, the owner/operator of tank S-73 shall maintain monthly and annual waste solvent throughput records in a District-approved log. These records shall be kept on site and made available for District inspection for a period of at least 5 years from the date on which a record was made. (Basis: Cumulative Increase)
4. The composition of the solvent waste stored in tank S-73 may include water, ethanol, methanol, acetone, isopropyl alcohol and other solvents. The owner/operator must apply

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for and receive written approval before storing any other solvents that result in emissions that exceed the toxic trigger levels in Regulation 2-5.

(Basis: Cumulative Increase, Regulation 2-5)

COND# 22820 applies to S#'s 23, 24, 25, 30, 32, 33, 34, 35, 38, 39, 40, ...

1. The owner/operator shall not exceed 20 hours per year per engine for reliability-related testing.  
Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]
2. The owner/operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, State or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, State or Federal emission limits is not limited.  
[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]
3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained.  
[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]
4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 36 months from the date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
  - a. Hours of operation for reliability-related



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activities (maintenance and testing).

- b. Hours of operation for emission testing to show compliance with emission limits.
- c. Hours of operation (emergency).
- d. For each emergency, the nature of the emergency condition.
- e. Fuel usage for each engine(s).

[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

5. At School and Near-School Operation:

If the emergency standby engine is located on school grounds or within 500 feet of any school grounds, the following requirements shall apply:

The owner/operator shall not operate each stationary emergency standby diesel-fueled engine for non-emergency use, including maintenance and testing, during the following periods:

- a. Whenever there is a school sponsored activity (if the engine is located on school grounds)
- b. Between 7:30 a.m. and 3:30 p.m. on days when school is in session.

"School" or "School Grounds" means any public or private school used for the purposes of the education of more than 12 children in kindergarten or any of grades 1 to 12, inclusive, but does not include any private school in which education is primarily conducted in a private home(s). "School" or "School Grounds" includes any building or structure, playground, athletic field, or other areas of school property but does not include unimproved school property.

[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

COND# 22830 applies to S#'s 77, 94, 102, 103, 105, 107

- 1. The owner/operator shall not exceed 30 hours per year per engine for reliability-related testing.

[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection 93115.6]

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- (b) (3) (A) (1) (b)] or [Basis: Regulation 2-5]
2. The owner/operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, State or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, State or Federal emission limits is not limited.  
[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]
3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained.  
[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]
4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 36 months from the date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
- a. Hours of operation for reliability-related activities (maintenance and testing).
  - b. Hours of operation for emission testing to show compliance with emission limits.
  - c. Hours of operation (emergency).
  - d. For each emergency, the nature of the emergency condition.
  - e. Fuel usage for each engine(s).
- [Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]
5. At School and Near-School Operation:  
If the emergency standby engine is located on school



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grounds or within 500 feet of any school grounds, the following requirements shall apply:

The owner/operator shall not operate each stationary emergency standby diesel-fueled engine for non-emergency use, including maintenance and testing, during the following periods:

- a. Whenever there is a school sponsored activity (if the engine is located on school grounds)
- b. Between 7:30 a.m. and 3:30 p.m. on days when school is in session.

"School" or "School Grounds" means any public or private school used for the purposes of the education of more than 12 children in kindergarten or any of grades 1 to 12, inclusive, but does not include any private school in which education is primarily conducted in a private home(s). "School" or "School Grounds" includes any building or structure, playground, athletic field, or other areas of school property but does not include unimproved school property.

[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

COND# 22850 applies to S#'s 56, 79, 81, 93, 95, 96, 98, 99, 106, 108

1. The owner/operator shall not exceed 50 hours per year per engine for reliability-related testing.  
[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]
2. The owner/operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, State or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, State or Federal



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emission limits is not limited.

[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained.  
[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 36 months from the date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
- a. Hours of operation for reliability-related activities (maintenance and testing).
  - b. Hours of operation for emission testing to show compliance with emission limits.
  - c. Hours of operation (emergency).
  - d. For each emergency, the nature of the emergency condition.
  - e. Fuel usage for each engine(s).
- [Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

5. At School and Near-School Operation:  
If the emergency standby engine is located on school grounds or within 500 feet of any school grounds, the following requirements shall apply:

The owner/operator shall not operate each

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stationary emergency standby diesel-fueled engine for non-emergency use, including maintenance and testing, during the following periods:

- a. Whenever there is a school sponsored activity (if the engine is located on school grounds)
- b. Between 7:30 a.m. and 3:30 p.m. on days when school is in session.

"School" or "School Grounds" means any public or private school used for the purposes of the education of more than 12 children in kindergarten or any of grades 1 to 12, inclusive, but does not include any private school in which education is primarily conducted in a private home(s). "School" or "School Grounds" includes any building or structure, athletic field, or other areas of school property but does not include unimproved school property.

[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

COND# 22851 *applies to S#'s 62, 70*

1. Operating for reliability-related activities is limited to no more than 34 hours per year per engine which is the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25. This emergency fire pump is subject to the current National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing and Maintenance of Water-Based Fire Protection Systems."

[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations]

2. The owner or operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, state or Federal

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emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, state or Federal emission limits is not limited.

[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e) (2) (B) (3)]

3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained.

[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e) (4) (G) (1)]

4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 36 months from the date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
  - a. Hours of operation for reliability-related activities (maintenance and testing).
  - b. Hours of operation for emission testing to show compliance with emission limits.
  - c. Hours of operation (emergency).
  - d. For each emergency, the nature of the emergency condition.
  - e. Fuel usage for each engine(s).

[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e) (4) (I), (or, Regulation 2-6-501)]

5. At School and Near-School Operation:  
If the emergency standby engine is located on school



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grounds or within 500 feet of any school grounds, the following requirements shall apply:

The owner or operator shall not operate each stationary emergency standby diesel-fueled engine for non-emergency use, including maintenance and testing, during the following periods:

- a. Whenever there is a school sponsored activity (if the engine is located on school grounds)
- b. Between 7:30 a.m. and 3:30 p.m. on days when school is in session. "School" or "School Grounds" means any public or private school used for the purposes of the education of more than 12 children in kindergarten or any of grades 1 to 12, inclusive, but does not include any private school in which education is primarily conducted in a private home(s). "School" or "School Grounds" includes any building or structure, playground, athletic field, or other areas of school property but does not include unimproved school property.

[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e) (2) (A) (1)] or (e) (2) (B) (2)]

COND# 23347 applies to S# 100

[Modified during permit renewal 5/2020]

1. The owner/operator shall ensure that the solvent throughput for S-100 does not exceed the following limits in any consecutive twelve-month period:

| Compound                                            | Gallons |
|-----------------------------------------------------|---------|
| Chloroform                                          | 100     |
| Formaldehyde                                        | 100     |
| Total Solvent (including Chloroform & Formaldehyde) | 26,100  |
| (Basis: Cumulative Increase)                        |         |

2. The owner/operator may store alternate liquid(s) other than the materials specified in Part 1 and/or in throughputs in excess of those specified in Part 1, provided the owner/operator can demonstrate that all of

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the following are satisfied:

- a. Total POC emissions from S-100 do not exceed 40 pounds in any consecutive twelve month period;
  - b. Total NPOC emissions from S-100 do not exceed 40 pounds in any consecutive twelve month period; and
  - c. The use of these materials does not increase toxic emissions above any risk screening trigger level in Table 2-5-1 in Regulation 2-5.  
(Basis: Cumulative Increase; Regulation 2-5)
3. To determine compliance with the above parts, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above parts:
- a. Quantities of each type of liquid stored at this source on a monthly basis.
  - b. If a material or quantity other than those specified in Part 1 is stored, POC/NPOC and toxic component contents of each material used; and TANKS emission calculations to demonstrate compliance with Part 2, on a monthly basis;
  - c. Monthly throughput and/or emission calculations shall be totaled for each consecutive twelve-month period. All records shall be retained on-site for at least five years from the date of entry and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.  
(Basis: Cumulative Increase; Regulation 2-5))
4. The owner/operator shall ensure that the pressure vacuum valve on S-100 is set to 1 psig.  
(Basis: Cumulative Increase; Regulation 2-5))

COND# 23678 applies to S#'s 83, 84, 85

&lt;Modified 12/16/08, during permit renewal 5/2020&gt;

In addition to the requirements of Regulation 9, Rule 7, the owner/operator shall comply with the following for S-83, S-84 and S-85 Boilers:

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1. The owner/operator shall exclusively fire S-83, S-84, and S-85 on natural gas. [Basis: BACT, Offsets, and Cumulative Increase]
2. The owner/operator shall not allow the heat input rate to each boiler to exceed 97 MM BTU during any hour based on the higher heating value (HHV) of the gas. [Basis: Cumulative Increase and NSPS, 40 CFR Part 60, Subpart Dc]
3. The owner/operator shall ensure that the total combined natural gas usage rate at S-83, S-84, and S-85 does not exceed 849,720 MM BTU (based on the HHV of the fuel), or 8,497,200 therms, during any consecutive 12-month period. [Basis: Offsets and Cumulative Increase]
4. Except for start-up and shutdown periods, the owner/operator shall not allow emissions of nitrogen oxides (NOx) to exceed 9 ppmvd of NOx at 3% oxygen, as determined by a District-approved source test. [Basis: BACT]
5. Except for start-up and shutdown periods, the owner/operator shall not allow emissions of carbon monoxide (CO) to exceed 50 ppmvd of CO at 3% oxygen, as determined by a District-approved source test. [Basis: BACT]
6. The owner/operator shall ensure each start-up period does not exceed 180 minutes and each shut-down period does not exceed 60 minutes. A startup period shall include the time from initiation of fuel firing at the boiler until the boiler achieves the lowest firing rate limit cited in Part 8 for that boiler. A shutdown period shall include the time from when the firing rate at a boiler drops below the lowest firing rate limit cited in Part 8 until fuel firing at the boiler ceases. [Basis: BACT]
7. In addition to the requirements of Regulation 1-523, the owner/operator shall operate and maintain all parametric monitors for S-83, S-84, and S-85 as specified in the following requirements:
  - a. The owner/operator shall equip each boiler with



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equipment that continuously monitors and records the fuel flow rate and the oxygen concentration (wet basis) in the exhaust.

- b. The owner/operator shall calibrate the oxygen and fuel flow rate monitors on an annual basis.

[Basis: BACT]

8. Unless Part 9 is met and except for start-up and shut-down periods as defined in Part 6 and testing periods allowed pursuant to Part 11, the owner/operator shall operate within the following operating region that is defined by the heat input and oxygen concentration limits based on a rolling three-hour average basis:

For S-83,

| Firing Rate (HHV),<br>MM BTU/hour | % O <sub>2</sub> , wet basis |
|-----------------------------------|------------------------------|
| 90.0                              | 4.4%                         |
| 91.0                              | 5.8%                         |
| 76.0                              | 6.4%                         |
| 20.0                              | 6.1%                         |
| 19.0                              | 4.9%                         |
| 32.0                              | 4.7%                         |

For S-84,

| Firing Rate (HHV),<br>MM BTU/hour | % O <sub>2</sub> , wet basis |
|-----------------------------------|------------------------------|
| 92.0                              | 4.5%                         |
| 92.0                              | 6.8%                         |
| 76.0                              | 7.1%                         |
| 20.0                              | 6.0%                         |
| 20.0                              | 5.1%                         |
| 32.0                              | 4.5%                         |

For S-85,

| Firing Rate (HHV),<br>MM BTU/hour | % O <sub>2</sub> , wet basis |
|-----------------------------------|------------------------------|
| 92.0                              | 4.8%                         |
| 92.0                              | 6.7%                         |
| 76.0                              | 6.8%                         |
| 19.0                              | 6.1%                         |
| 19.0                              | 4.8%                         |
| 32.0                              | 4.3%                         |
| 76.0                              | 4.3%                         |

[Basis: BACT]

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9. This Part is effective only if the owner/operator chooses the following alternate compliance method when a boiler is operated outside of the limits specified in Part 8 as verified by District staff. The owner/operator shall conduct a District-approved source test at that boiler within 45 days of the date of the deviation, which encompasses all points of deviations from Part 8. If this source test demonstrates compliance with Parts 4 and 5 at the proposed operating point, the owner/operator shall submit an application for a Change of Conditions to revise the limits in Part 8 within 30 days of receiving the source test results. Compliance with this section is demonstrated when the owner/operator receives a Change of Permit Conditions with the new operating points. [Basis: BACT]
10. The owner/operator may conduct source tests at operating conditions that are outside of the currently permitted operating region, to explore alternative operating point limits for consideration by District staff for possible modification to Part 8, provided this testing does not exceed 50 hours per boiler during any consecutive 12-month period and follows the requirements of Part 12. [Basis: BACT and NSPS]
11. To demonstrate compliance with Parts 4, 5 and 8, the owner/operator shall conduct a source test at least every 12 months for each boiler for at least two operating conditions within the region specified in Part 8, in accordance with the requirements of Part 12. [Basis: BACT and NSPS]
12. In order to demonstrate compliance with any source testing requirements, the owner/operator shall conduct all source tests in accordance with the District's Manual of Procedures and the following requirements:
  - a. The owner/operator shall obtain approval of all testing procedures from the Manager of the District's Source Test Section prior to conducting any tests and shall notify the Manager of the District's Source Test Section of the scheduled test date at least seven (7) days prior to conducting the test.
  - b. The owner/operator shall perform three (3) 30-minute runs for each operating condition for each test.

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- c. As a minimum, the owner/operator shall measure or determine the following parameters for each operating condition: fuel flow rate (cfm), heat input rate (MM BTU/hour), air to fuel ratio, flue gas recirculation rate, boiler exit oxygen concentration measured by the parametric monitor (% O<sub>2</sub>, wet basis, averaged over the test period), outlet oxygen concentration (%O<sub>2</sub>, dry basis), outlet nitrogen oxide concentration (ppmvd of NO<sub>x</sub> at 3% O<sub>2</sub>), outlet carbon monoxide concentration (ppmvd of CO at 3% O<sub>2</sub>), stack gas temperature (|F), stack gas flow rate (scfm, dry basis), and steam production rate.
- d. The owner/operator shall calculate the heat input rate to each boiler based on the measured fuel flow rate and the high heating value (HHV) of the fuel using District-approved procedures.
- e. Within 60 days of completion of the test, the owner/operator shall submit a comprehensive report of the test results to the Manager of the District's Source Test Section.
- f. The owner/operator shall include a graphical representation of the source test results for each boiler with the following requirements, with heat input rate (MM BTU/hour) on the y-axis and oxygen concentration (% O<sub>2</sub>) on the x-axis:
  - 1) all heat input and parametric oxygen monitor measurements determined during the source test,
  - 2) a plot of the currently permitted operating region specified in Part 8, and
  - 3) identification of any non-compliant points on the graph.

[Basis: BACT and NSPS]

- 13. The owner/operator shall maintain the following records:
  - a. On a monthly basis, the maximum hourly heat input rate to each boiler and the total monthly heat input rate to each boiler;
  - b. The total heat input rate to the three boilers combined for each consecutive rolling 12-month period;
  - c. On a monthly basis, the dates, times, and duration for each startup period and for each shutdown period at each boiler;
  - d. For each source test, the total operation time at

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operating conditions that are outside of the currently permitted operating region;

- e. Calculations, monitoring data, source tests, calibrations, adjustments, maintenance events, and any other information necessary to demonstrate compliance; and

- f. Any compliance deviations.

The owner/operator shall make records available to District staff upon request for a period of at least five years from the date of entry. These requirements do not replace the record keeping requirements of any applicable rule or regulation.

[Basis: Offsets, Cumulative Increase, and BACT]

COND# 24405 applies to S#'s 46, 78, 80, 82, 87, 88, 89, 90, 91, 92, 94, ...

1. The owner/operator shall abate emissions from the engine with the associated diesel particulate filter (DPF) at all times. [Basis: Cumulative Increase]
2. The owner/operator shall operate and maintain the DPF in accordance with the CARB Executive Order for the verified DPF. [Basis: Cumulative Increase]
3. In order to determine compliance with Part 2, the owner/operator shall install and maintain any required monitoring equipment specified in the CARB Executive Order. [Basis: Cumulative Increase]
4. The owner/operator shall keep adequate records that demonstrate compliance with Part 2. The owner/operator shall record the date, equipment parameters and action taken for any maintenance activity required to demonstrate compliance. The owner/operator shall keep such records for at least 36 months from the date the record was made and make the records available to the District upon request. [Basis: Recordkeeping]
5. The owner/operator shall keep on file the applicable CARB Executive Order for the DPF and make it available to the District upon request. [Basis: Recordkeeping]

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COND# 24428 applies to S# 72

[Modified during permit renewal 5/2020]

The owner/operator shall comply with the following for  
S-72, Ethylene Oxide Sterilizer, abated by A-3, 3M  
Ethylene Oxide Catalytic Oxidizer:

1. The owner/operator shall only use 100% ethylene oxide sterilant gas at S-72.  
[Basis: Cumulative increase, Regulation 2-5]
2. The owner/operator shall not use more than 100 pounds of 100% ethylene oxide sterilant gas in any consecutive twelve-month period.  
[Basis: Cumulative increase, Regulation 2-5]
3. Except as allowed in Part 5d, the owner/operator shall ensure that S-72 is abated by A-3 during all operation.  
[Basis: Cumulative increase, Regulation 2-5]
4. Except as allowed in Part 5d, the owner/operator shall not perform a sterilization cycle at S-72 unless ethylene oxide emissions are reduced by at least 99% by weight, averaged over the entire discharge cycle.  
[Basis: Cumulative increase, Regulation 2-5]
5. The owner/operator shall ensure that the A-3 ethylene oxide abatement system is equipped with automatic controls which:
  - a. Monitor the catalytic bed temperature;
  - b. Prevent sterilant gas from being sent to A-3 if the catalyst bed temperature is less than 280 degrees F or more than 500 degrees F;
  - c. Shut off the flow of ethylene oxide to the sterilizer if the catalytic bed temperature exceeds 500 degrees F; and
  - d. Trap the sterilant gas in the sterilization chamber if the abatement device becomes inoperable. The sterilant gas may be emergency vented from the chamber if the chamber pressure exceeds the manufacturer's set point.[Basis: Cumulative increase, Regulation 2-5]

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MANAGEMENT DISTRICT**PERMIT  
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6. The owner/operator shall equip the ethylene oxide abatement system with automatic recorders, which record the status of the inlet catalytic bed temperature and the outlet catalytic bed temperature continuously during the operation of each sterilization cycle. Each recording shall clearly indicate the starting date and time. Temperature records of all operations shall be kept on site for at least five years, and shall be made available to District staff upon request.  
[Basis: Cumulative increase, Regulation 2-5]
7. In order to demonstrate compliance with Parts 2 and 5d above, the owner/operator shall maintain records of sterilant gas purchases, a log of the date and time of each sterilization operation cycle and the date and time of any emergency ventings. These records shall be retained on site for at least five years after the date of purchase or entry, and shall be made available for inspection by District staff upon request.  
[Basis: Cumulative increase, Regulation 2-5]
8. Start-up condition Deleted 5/19/2009
9. In order to demonstrate compliance with Part 4, the owner/operator shall perform a District-approved compliance source test (BAAQMD Source Test Procedure ST-45 or equivalent) every two years, or prior to the use of 400 lbs of ethylene oxide, whichever occurs later. The owner/operator shall notify the Manager of the District's Source Test Section in writing at least seven (7) days prior to the test, to provide District staff the option of observing testing. Within 30 days of test completion, a comprehensive report of the test results shall be submitted to the Manager of the District's Source Test Section for review and Disposition. [Basis: Cumulative increase, Regulation 2-5, Manual of Procedures, Volume IV]
10. The owner/operator may petition the Air Pollution Control Officer to waive or postpone the compliance test set forth in Part 9 above. A complete petition must be submitted at least two months prior to the date that the compliance test would be due. The petition must include:
  - a. A demonstration that the abatement system is in



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compliance with Part 9 above and Regulation 11-9, such as verified measurement of an ethylene oxide concentration of 1 ppm by volume or less at the exhaust point of the abatement system during the initial flow of ethylene oxide to the abatement device. Such measurement must meet the provisions of US EPA Method 21, requiring the use of a photo ionization detector, a flame ionization detector, or an infrared detector to demonstrate ethylene oxide emission concentrations of 1 ppm by volume or less; and

- b. Copies of temperature monitor recordings that show the status of the inlet catalytic bed temperature and outlet catalytic bed temperature for the first hour of abatement device operation. Copies of temperature recordings should be submitted for a cycle within one week of the date of request for waiver or postponement, and for a complete cycle run within one week after the installation of the temperature recorder or replacement of the catalyst bed.

[Basis: Cumulative increase, Regulation 2-5]

11. The owner/operator shall obtain approval from the District's Technical Services Division for the installation of stack sampling ports, and for all source testing procedures. The owner/operator shall notify the Permit Services and Technical Divisions at least two weeks prior to any source test.

[Basis: Manual of Procedures, Volume IV]

12. If there are two or more emergency ventings, as described in Part 5d, in any consecutive 12-month period, the owner/operator shall submit a permit application within 30 days of the second venting which proposes a plan to reduce the number of emergency ventings. [Basis: Cumulative increase, Regulation 2-5]

COND# 25404 applies to ALL SOURCES at this plant.

Genentech, Inc., South San Francisco, CA 94080  
Application #24594, Site #A1257

Genentech, Inc., Site #A1257, has a Synthetic Minor

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Operating Permit. This operating permit covers all sources at the facility, including exempt sources.

The following conditions establish the federally enforceable permit terms to ensure that this plant is classified as a Synthetic Minor Facility under BAAQMD Regulation 2, Rule 6, Major Facility Review; and ensure that it is not subject to the permitting requirements of Title V of the Federal Clean Air Act as amended in 1990 and 40 CFR Part 70. All applications submitted by the applicant and all modifications to the plant's equipment after issuance of the Synthetic Minor permit must be evaluated to ensure that the facility will not exceed the synthetic minor general limits below and that sufficient monitoring, recordkeeping, and reporting requirements are imposed to ensure enforceability of the limits.

Any revision to a condition establishing this plant's status as a Synthetic Minor Facility or any new permit term that would limit emissions of a new or modified source for the purpose of maintaining the facility as a synthetic minor, must undergo the procedures pursuant to Regulation 2, Rule 6, section 423. The basis for the synthetic minor conditions is an emission limit for regulated air pollutants of 95 tons per year, an emission limit of 90,000 tons per year for greenhouse gases or GHG (on a CO<sub>2</sub> equivalent or CO<sub>2</sub>e basis), an emission limit for a single HAP (hazardous air pollutant) of 9 tons per year, and an emission limit for a combination of HAPs of 23 tons per year.

Synthetic Minor Conditions:

1. The owner/operator shall not allow facility emissions to exceed the following limits in any consecutive 12 month period:

|                     |             |
|---------------------|-------------|
| NOx                 | 95 tons     |
| CO                  | 95 tons     |
| POC                 | 95 tons     |
| PM10                | 95 tons     |
| SO2                 | 95 tons     |
| Any Single HAP      | 9 tons      |
| Combination of HAPs | 23 tons     |
| CO <sub>2</sub> e   | 90,000 tons |

(basis: Regulation 2-6-423.2)
2. The owner/operator shall demonstrate compliance with the



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emission limits for NOx and CO2e as outlined below:

- a. Combustion Sources Fired by Natural Gas: the owner/operator shall use either facility wide utility meter and/or source specific fuel meters to measure the natural gas usage in each permitted natural gas fired combustion source at the facility and to measure the total natural gas usage in all permit exempt natural gas fired combustion sources. Emission factors for NOx shall be the respective NOx permit or regulatory limits for permitted sources. For registered sources, emission factors for NOx shall be the respective NOx regulatory limits or 0.0980 lbs of NOx per MM Btu of natural gas (from Table 1.4-2 of EPA AP-42, 5th Edition). For other permit exempt sources, emission factor for NOx shall be 0.0980 lbs of NOx per MM Btu of natural gas (from Table 1.4-2 of EPA AP-42, 5th Edition). Emission factor for CO2e shall be 117.0 lbs of CO2e per MM BTU of natural gas (from 40 CFR Part 98). Natural gas consumption applied to the emission factor shall be actual metered throughput. Sources without a dedicated fuel meter shall be grouped together and linked to a main fuel meter in such a way as to determine the entire fuel use for the group.
- b. Combustion Sources Fired by Diesel Fuel: the owner/operator shall use hour meters to measure diesel fuel usage in all permitted and exempt permit diesel fuel fired combustion sources at the facility; if diesel fuel usage and engine load are not measured but run time is recorded, the owner/operator shall assume an engine operated at full load and maximum fuel use rate its entire run time. Emission factors for NOx shall be the respective CARB certified emission limits for NOx for sources in this category; for the diesel fuel fired equipment that does not have CARB certified emission limits, emission factors for NOx shall be the emission limits used in respective BAAQMD permit applications; the emission limits for NOx for all diesel fuel fired equipment are tabulated in Table D3 of the SMOP Evaluation Report. Alternatively, emission factors for NOx shall be the

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respective CARB certified emission limits for NOx for sources in this category; or, if applicable, the respective emission limits for NOx found in EPA Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, Final Rule, 2006; or 14 g/hp-hr (from Table 3.3-1 of EPA AP-42, 5th Edition).

Emission factor for CO2e shall be 163.6 lb of CO2e per MM BTU of diesel fuel or 22.58 lb of CO2e per gallon of diesel fuel (from 40 CFR Part 98).

Fuel consumption shall be based on actual usage for each source in this category.

Emissions of NOx and CO2e from each source or source group shall be calculated and recorded on a monthly basis. Annual emissions shall be summarized on a rolling 12 month basis. All records required by the Synthetic Minor Operating Permit shall be kept on site and be available for inspection by BAAQMD personnel for at least 5 years from the date that a record was made. (basis: Regulation 2-6-423.2)

3. The owner/operator shall develop and maintain monitoring tables to clearly demonstrate compliance with the NOx and CO2e Synthetic Minor Operating Permit limits on a rolling 12 month basis beginning with the first calendar month after the issuance of the Synthetic Minor Operating Permit. All monitoring tables shall be updated as applicable when equipment is added to or removed from the facility. The facility has the authority under the Synthetic Minor Operating Permit to make additions and deletions to equipment in the approved monitoring tables without prior approval of the BAAQMD provided that approved emissions factors and monitoring methodologies are followed. The BAAQMD has the authority at any time to require modifications to the monitoring tables as deemed necessary to improve the accuracy or clarity of monitored data. (basis: Regulation 2-6-423.2)

COND# 26252 applies to S#'s 111, 112, 113, 114, 115, 116, 117

Application 26445

[Modified during permit renewal 5/2020]

Archive S-53 and create S-111 through S-117

S-111 GMP Wipe Cleaning in Production-Mammalian Cell, Bldg 3

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S-112 GMP Wipe Cleaning-Production-Bacterial Cell & Final Purification, Bldg 3  
S-113 GMP Wipe Cleaning-Production-Formulation & Filling, Bld 8  
S-114 GMP Wipe Cleaning in Production, Bldg 51  
S-115 GMP Wipe Cleaning in Production-Clinical & Support Ops  
S-116 Solvent Wipe Cleaning in R&D, Lower Campus  
S-117 Solvent Wipe Cleaning in R&D, Mid & South Campus

1. The owner/operator shall ensure that the combined usage of precursor organic compounds at S-111 through S-117 does not exceed 53,880 pounds in any consecutive twelve month period. [Basis: Cumulative Increase]
2. The owner/operator shall ensure that the precursor organic compound usage at each source S-111 through S-117 does not exceed 10,000 pounds in any consecutive twelve month period. [Basis: Cumulative Increase, Regulation 8-4-302]
3. To comply with Best Available Control Technology requirements, the owner/operator shall do the following:
  - a. use solvents with the lowest practical vapor pressure when possible and shall not use solvents with vapor pressures exceeding 45 mm Hg at 60 degrees Fahrenheit,
  - b. minimize use of solvents,
  - c. use controlled flow solvent dispensers (e.g. squeeze bottles), and
  - d. store all solvent laden cloths/papers and solvents not in active use in closed containers.[Basis: BACT]
4. The owner/operator shall not use any materials that would result in toxic air contaminant emissions from any source exceeding a respective trigger level in Table 2-5-1 of Regulation 2, Rule 5. [Basis: Regulation 2, Rule 5]
5. In addition to the recordkeeping requirements of Regulation 8, Rule 16, Section 501.3, the owner/operator shall maintain the following records:
  - a. Basis and calculations of precursor organic compound usages and emissions.
  - b. Monthly precursor organic compound usages and emissions shall be totaled collectively for S-111 through S-117 for each consecutive twelve month period.

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c. Monthly precursor organic compound usages and emissions shall be totaled individually for S-111 through S-117 for each consecutive twelve month period.

.All records shall be retained on site for at least five years from the date of entry and made available to District staff upon request. [Basis: Cumulative Increase,]

COND# 26430 applies to S# 109

Application 27420: New Installation <December 2016>  
[Modified during permit renewal 5/2020]

1. The owner/operator shall ensure that the solvent throughputs at S-109 do not exceed the following limits during any consecutive twelve-month period:

|                      |              |
|----------------------|--------------|
| 1-Butanol            | 4000 gallons |
| 1,4-Dioxane          | 400 gallons  |
| Acetone              | 8000 gallons |
| Acetic Acid          | 400 gallons  |
| Acetonitrile         | 8200 gallons |
| Benzene              | 200 gallons  |
| Chloroform           | 200 gallons  |
| Dimethylformamide    | 400 gallons  |
| Ethanol              | 8000 gallons |
| Ethyl Acetate        | 8000 gallons |
| Ethanolamine         | 400 gallons  |
| Heptane              | 400 gallons  |
| Isopropanol          | 8000 gallons |
| Methanol             | 8000 gallons |
| Methylene chloride   | 400 gallons  |
| n-Hexane             | 400 gallons  |
| Toluene              | 400 gallons  |
| Xylenes              | 8000 gallons |
| Glycerol             | 400 gallons  |
| Dimethylsulfoxide    | 400 gallons  |
| Trifluoroacetic acid | 40 gallons   |
| Dimethylacetamide    | 400 gallons  |
| Tetrahydrofuran      | 400 gallons  |

[Basis: Cumulative Increase, Regulation 2-5]

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2. The owner/operator may store alternate liquid(s) other than those specified in Part 1 and/or at throughputs in excess of those specified in Part 1, provided the owner/operator can demonstrate all of the following are satisfied:
- a. Total POC emissions from S-109 do not exceed 48 pounds in any consecutive twelve-month period;
  - b. Total NPOC emissions from S-109 do not exceed 465 pounds in any consecutive twelve-month period; and
  - c. The storage of these materials does not increase toxic emissions above any risk screening trigger level in Regulation 2, Rule 5.
- [Basis: Cumulative Increase, Regulation 2-5]
3. The owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above parts, including:
- a. Quantities of each type of liquid stored at this source on a monthly basis.
  - b. If a material other than those specified in Part 1 is stored, POC/NPOC and toxic component contents of each material and mass emission calculations to demonstrate compliance with Part 2 on a monthly basis.
  - c. Monthly throughput and/or emission calculations shall be totaled for each consecutive twelve-month period.
  - d. All vapor pressure measurements and/or calculations. All records shall be retained on-site for at least five years from the date of entry and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.
- [Basis: Cumulative Increase, Regulation 2-5]

COND# 26640 applies to S# 80

Pl# 1257, Genentech, Inc

App# 28920

Modification of S-80, Emergency Standby Generator to install Natural Gas/Diesel Bi-Fuel System

1. The owner/operator shall operate and maintain S-80,



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Emergency Standby Generator, with installed Altronic Bi-Fuel system according to the manufacturer's specification for best operating practices and, where applicable, in accordance with the CARB Executive Order for the Bi-Fuel System.

[Basis: Cumulative Increase]

2. The owner/operator shall ensure at all times that operation of the Bi-Fuel system does not impair the operational efficiency of the CARB verified DPF installed on the engine.

[Basis: Cumulative Increase, BACT]

~~~~~ END OF CONDITIONS ~~~~~

| S# | Source Description | Annual Average lbs/day | | | | |
|----|-----------------------------------|------------------------|-----|-----|-----|------|
| | | PART | ORG | NOx | SO2 | CO |
| -- | ----- | ---- | --- | --- | --- | -- |
| 13 | Hot Water Boiler, H101 | 1.1 | 1 | 1.5 | .08 | 5.2 |
| 14 | Hot Water Boiler, H102 | .72 | 1 | 1 | .05 | 3.4 |
| 15 | Chemical Waste Storage Tank | - | 0 | - | - | - |
| 16 | CHEMICAL WASTE STORAGE TANK | - | - | - | - | - |
| 17 | CHEMICAL WASTE STORAGE TANK | - | - | - | - | - |
| 23 | Emergency Diesel Generator | - | 0 | .8 | - | 0 |
| 24 | Emergency Diesel Generator | .03 | 0 | 6.4 | - | .1 |
| 25 | Emergency Diesel Generator | - | - | - | - | - |
| 30 | Emergency Diesel Generator | - | 0 | .5 | - | .1 |
| 32 | Emergency Diesel Generator | - | - | - | - | - |
| 33 | Emergency Diesel Generator | - | - | - | - | - |
| 34 | Emergency Diesel Generator | .02 | 0 | 1.6 | - | .3 |
| 35 | Emergency Diesel Generator | - | 0 | .2 | - | .2 |
| 38 | Emergency Diesel Generator | .1 | 0 | 7.1 | - | 1.5 |
| 39 | Emergency Diesel Generator | .14 | 1 | 10 | - | 2.2 |
| 40 | Emergency Diesel Generator | .06 | 0 | 4.3 | - | .9 |
| 41 | Emergency Diesel Generator | .05 | 0 | 4 | - | .9 |
| 42 | Emergency Diesel Generator | .01 | 0 | .8 | - | .2 |
| 43 | Emergency Diesel Generator | .01 | 0 | .9 | - | .2 |
| 46 | Emergency Diesel Generator | - | 0 | .4 | - | 0 |
| 47 | Emergency Diesel Generator | - | 0 | .3 | - | .1 |
| 48 | Emergency Diesel Generator | - | 0 | .1 | - | 0 |
| 49 | Emergency Diesel Generator | - | 0 | .2 | - | .1 |
| 50 | Emergency Diesel Generator | - | - | .1 | - | 0 |
| 56 | Emergency Diesel Fire Pump | - | - | .1 | - | 0 |
| 58 | Emergency Diesel Generator | - | 0 | .4 | - | 0 |
| 59 | Emergency Diesel Generator | - | 0 | .4 | - | 0 |
| 60 | Emergency Diesel Generator | - | - | - | - | - |
| 61 | Emergency Diesel Generator | .07 | 0 | 3.2 | - | .5 |
| 62 | Emergency Diesel Firepump | - | - | 0 | - | - |
| 63 | Emergency Diesel Generator Engine | - | 0 | .4 | - | 0 |
| 70 | Emergency Diesel Firepump | - | - | .1 | - | - |
| 71 | Emergency Diesel Generator | - | 0 | .1 | - | .1 |
| 72 | Ethylene Oxide Sterilizer | - | - | - | - | - |
| 73 | Waste Solvent Storage Tank | - | 1 | - | - | - |
| 74 | FRC II Laboratory Operations | - | 0 | - | - | - |
| 75 | Emergency Diesel Generator | - | 0 | 0 | - | - |
| 76 | Emergency Diesel Generator | .02 | 0 | .1 | - | - |
| 77 | Emergency Diesel Firepump | - | 0 | .1 | - | - |
| 78 | Emergency Diesel Generator | - | 0 | .4 | - | 0 |
| 79 | Emergency Diesel Firepump | - | - | .1 | - | 0 |
| 80 | Emergency Diesel Generator | - | - | .3 | - | 0 |
| 81 | Emergency Diesel Firepump | - | - | .1 | - | 0 |
| 82 | Emergency Diesel Generator Set | - | 0 | 3.6 | - | .2 |
| 83 | Boiler | 2.2 | 2 | 3.3 | .16 | 10.9 |
| 84 | Boiler | 1.71 | 2 | 2.6 | .13 | 8.5 |
| 85 | Boiler | 1.6 | 2 | 2.4 | .12 | 7.9 |
| 87 | Emergency Diesel Generator Set | - | 0 | 1.5 | - | .1 |
| 88 | Emergency Diesel Generator Set | - | - | .4 | - | 0 |
| 89 | Emergency Diesel Generator Set | - | 0 | .4 | - | 0 |

| S# | Source Description | Annual Average lbs/day | | | | |
|-----|--|------------------------|------|------|------|----|
| | | PART | ORG | NOx | SO2 | CO |
| -- | ----- | ---- | ---- | ---- | ---- | -- |
| 90 | Emergency Diesel Generator Set | - | 0 | .8 | - | 0 |
| 91 | Emergency Diesel Generator Set | - | 0 | .6 | - | 0 |
| 92 | Emergency Diesel Generator Set | - | 0 | 1.6 | - | .1 |
| 93 | Emergency Diesel Generator Set | - | - | 0 | - | - |
| 94 | Emergency Diesel Generator Set | - | 0 | .4 | - | 0 |
| 95 | Emergency Diesel Generator Set | - | - | .2 | - | 0 |
| 96 | Emergency Diesel Generator Set | - | - | .2 | - | 0 |
| 98 | Emergency Diesel Generator Set | - | - | 0 | - | - |
| 99 | Emergency Diesel Generator Set | - | - | .1 | - | 0 |
| 100 | Solvent Waste Tank | - | 1 | - | - | - |
| 102 | Emergency Diesel Generator | - | 0 | .4 | - | 0 |
| 103 | Emergency diesel Generator | - | 0 | .5 | - | 0 |
| 104 | Laboratory Operations | - | - | - | - | - |
| 105 | Emergency Diesel Generator Set | - | - | 0 | - | 0 |
| 106 | Emergency Diesel Generator | - | - | .1 | - | 0 |
| 107 | Emergency Diesel Generator Set | - | - | .3 | - | 0 |
| 108 | Emergency Diesel Generator | - | - | .2 | - | 0 |
| 109 | Building 47 Solvent Waste Tank | - | 1 | - | - | - |
| 110 | Boiler | - | - | - | - | - |
| 111 | GMP Wipe Cleaning in Production - Mammalia | - | 25 | - | - | - |
| 112 | GMP Wipe Cleaning in Production - Bacteria | - | 4 | - | - | - |
| 113 | GMP Solvent Wipe Cleaning in Production - | - | 9 | - | - | - |
| 114 | GMP Solvent Wipe Cleaning in Production - | - | 15 | - | - | - |
| 115 | GMP Solvent Wipe Cleaning in Production - | - | 10 | - | - | - |
| 116 | Solvent Wipe Cleaning in Research and Deve | - | 27 | - | - | - |
| 117 | Solvent Wipe Cleaning in Research and Deve | - | 5 | - | - | - |
| 118 | Boiler HWB-12, EIN 64448 | - | - | - | - | - |
| 119 | Boiler, EIN 10053109 | - | - | - | - | - |
| 120 | Boiler, EIN 10053110 | - | - | - | - | - |
| 121 | Boiler, EIN 10053111 | - | - | - | - | - |
| 122 | Boiler, EIN 10053112 | - | - | - | - | - |
| 123 | Boiler, EIN 10053119 | - | - | - | - | - |
| 124 | Boiler, EIN 10053120 | - | - | - | - | - |
| 125 | Boiler, EIN 10053121 | - | - | - | - | - |
| 126 | Boiler, EIN 10053122 | - | - | - | - | - |
| 127 | Boiler SB1, EIN 71589 | - | - | - | - | - |
| 128 | Boiler SB2, EIN 71590 | - | - | - | - | - |
| 129 | Boiler B20-A, EIN 10026022 | - | - | - | - | - |
| 130 | Boiler B20-B, EIN 10026023 | - | - | - | - | - |
| 131 | Boiler B20-C, EIN 10026024 | - | - | - | - | - |
| 132 | Boiler B42A, EIN 71529 | - | - | - | - | - |
| 133 | Boiler B42B, EIN 71530 | - | - | - | - | - |
| 134 | Boiler B46A, EIN 10003268 | - | - | - | - | - |
| 135 | Boiler B46B, EIN 10003269 | - | - | - | - | - |
| 136 | Boiler B47A, EIN 10003406 | - | - | - | - | - |
| 137 | Boiler B47B, EIN 10003407 | - | - | - | - | - |
| 138 | Boiler B48A, EIN 10003662 | - | - | - | - | - |
| 139 | Boiler B48B, EIN 10003663 | - | - | - | - | - |
| 140 | Boiler B48D, EIN 10003622 | - | - | - | - | - |
| 141 | Boiler 148-BR-2203, EIN 10028465 | - | - | - | - | - |

| S# | Source Description | Annual Average lbs/day | | | | |
|-------------|----------------------------------|------------------------|------|------|------|------|
| | | PART | ORG | NOx | SO2 | CO |
| -- | ----- | ---- | ---- | ---- | ---- | ---- |
| 142 | Boiler 148-BR-2204, EIN 10028466 | - | - | - | - | - |
| 143 | Boiler B-3301, EIN 66306 | - | - | - | - | - |
| 144 | Boiler | - | - | - | - | - |
| 145 | Boiler | - | - | - | - | - |
| T O T A L S | | 7.94 | 109 | 65.6 | .57 | 44.6 |

** PLANT TOTALS FOR EACH EMITTED TOXIC POLLUTANT **

| Pollutant Name | Emissions lbs/day |
|--|-------------------|
| ----- | ----- |
| Benzene | .08 |
| Formaldehyde | .08 |
| Isopropyl alcohol | 94.16 |
| Methyl alcohol | .06 |
| Toluene | .10 |
| Xylene | .02 |
| Ethylbenzene | .03 |
| Methylene chloride | 1.23 |
| Methyl tertiary-butyl ether | .27 |
| Diesel Engine Exhaust Particulate Matter | .61 |